

TECHNICAL DATA SHEET

INCI Name: Myristyl Myristate

CAS: 3234-85-3

Chemical Classification: Esters

Functional Category: Skin conditioning agent, emollient, solvent, fragrance ingredient

IUPAC Name: Tetradecyl tetradecanoate, Myristic acid myristyl ester

Description: Myristyl Myristate is an ester derived from myristic acid and myristyl alcohol. It is widely used in cosmetics due to its emollient properties. This ingredient hydrates the skin by creating a protective layer that helps reduce transepidermal water loss (TEWL). Myristyl Myristate softens the skin and enhances its elasticity, making it particularly useful for dry and chapped skin. It is lightweight and non-greasy, ensuring smooth application. In formulations, it serves as a thickener and texture stabilizer, giving products a creamy consistency and a pleasant skin feel. It is compatible with oils and waxes, stabilizes emulsions, and improves the distribution of active ingredients. Suitable for all skin types, including sensitive skin, Myristyl Myristate is solid at room temperature, white in color, and has a mild scent, making it easy to integrate into formulations without altering sensory properties. At room temperature, it appears as a solid, typically a white or nearly white wax, with a melting point of 37°C to 55°C. It is practically insoluble in water but readily soluble in oils and lipids, integrating smoothly into the lipid phases of cosmetic formulations. It is suitable for use across a wide pH range and is compatible with anionic, nonionic, and cationic surfactants.

Benefits:

- Hydrates the skin by forming a protective barrier to prevent water loss.
- Softens the skin, leaving it smooth and elastic.
- Enhances the texture of the final product.
- Facilitates smooth application with a lightweight, non-greasy feel.
- Stabilizes emulsions, preventing oil and water separation.
- Improves the distribution of active ingredients within the product.
- Suitable for all skin types, including sensitive skin.
- Rarely causes irritation, making it safe for use.

Disclaimer: The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

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Usage: Myristyl Myristate is used in cosmetic formulations at concentrations that vary depending on the product type and desired effect. For creams and lotions, it is typically added at 1% to 5%, enhancing texture and providing a soft feel. In lip balms and solid body butters, it is used at higher concentrations, often up to 10%, to achieve stability and a smooth structure. In decorative cosmetics such as powders or lipsticks, it is employed at lower concentrations, usually up to 3%. It is added to the oil phase of formulations, as its lipophilic nature ensures easy solubility in oils at elevated temperatures. For external use only.

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components

Raw Material Origin: EU

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